CLAIMS

What is claimed is:

A portable computer system comprising: 1.

a processor coupled to a bus;

a light sensor coupled to said bus and for providing an ambjent light information signal to said processor;

a lighted display device coupled to said bus and for providing a visual display;

a display controller coupled to said bus and for controlling said visual display;

a data storage device coupled to said bus and comprising preconfigured dynamically adjustable brightness range setting data for implementing a plurality of different ranges;

and

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wherein said processor automatically selects a stored range of said plurality of stored ranges based on said ambient light information signal from said light sensor.

- The portable computer system of Claim 1 further comprising an 2. adjustment display for enabling the user to adjust a brightness setting within said selected range for said display device.
- The portable computer system of Claim 1 wherein said lighted 3. display device is transmissive.

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- 4. The portable computer system of Claim 1 wherein said lighted display device is emissive.
- 5. The portable computer system of Claim 1 wherein said lighteddisplay device is reflective.
 - 6. The portable computer system of Clair 1 wherein said lighted display device is transflective.
 - 7. The portable computer system of Claim 2 wherein said adjustment display comprises a brightness bar with user adjustable slider.
 - 8. The portable computer system of Claim 2 wherein said adjustment display comprises a plurality of selectable brightness levels.
 - 9. The portable computer system of Claim 2 wherein the relative position of said brightness setting remains unchanged upon a change from one selected range to another selected range.
 - 10. The portable computer system of Claim 9 wherein said display controller adjusts brightness of said display device according to said range and brightness setting.
- 11. The portable computer system of Claim 10 further comprising a

 user-configurable time period for implementing any brightness changes to said display device.

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- The portable computer system of Claim 11 wherein said time 12. period setting is fixed.
 - A portable electronic device comprising: 13.

a processor coupled to a bus;

a light sensor coupled to said bus and for providing ambient light information signal to said processor;

a lighted display device coupled to said/bus and for providing a visual display;

a display controller and for controlling said visual display;

a data storage device coupled to/said bus and comprising preconfigured dynamically adjustable brightness ranges; and

wherein said processor selects a brightness range of said stored brightness ranges based on preset range configuration data and said ambient light information signal from said light sensor.

- The portable electronic device of Claim 13 further comprising an 14. adjustment display for nabling the user to adjust brightness of said display device within said range setting.
- The portable electronic device of Claim 13 wherein said lighted 15. display device is transmissive.
- The portable electronic device of Claim 13 wherein said lighted 16. 25 display device is emissive.

- 17. The portable electronic device of Claim 13 wherein said lighted display device is reflective.
- 18. The portable electronic device of Claim 18 wherein said lighted5 display device is transflective.
 - 19. The portable electronic device of Claim 14 wherein said adjustment display is a graphical user interface comprising a brightness bar and a user adjustable slider.
 - 20. The portable electronic device of Claim 14 wherein said adjustment display is a graphical user interface comprising a plurality of user selectable brightness levels.
 - 21. The portable electronic device of Claim 14 wherein the relative position of said brightness setting remains unchanged upon change from a first brightness range to another/brightness range.
- 22. The portable electronic device of Claim 21 wherein said display

 controller implements adjustment to brightness of said display device according to said selected brightness range and brightness setting.
 - 23. The portable electronic device of Claim 22 further comprising a user-configurable time-delay for implementing any adjustment to brightness of said display device.

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- 24. The portable electronic device of Claim 23 wherein said time delay is fixed.
- 25. In a portable electronic device, a method of responding to a5 change in ambient light conditions comprising:
 - a) detecting said change in ambient light conditions and generating a signal in response thereto;
 - b) in response to said signal, a processor of said portable electronic device selecting a brightness range from a plurality of stored brightness ranges based on preconfigured range information; and
 - c) implementing said brightness range to alter the brightness of a display device of said portable electronic device.
 - 26. A method as described in Claim 25 further comprising:
 - d) allowing a user to adjust a brightness setting within said selected brightness range; and
 - e) altering said brightness of said display device based on said brightness setting
- 27. A method as described in Claim 26 wherein said d) is implemented using a graphical user interface.
 - 28. A method as described in Claim 25 wherein c) comprises employing a time delay between any brightness transition of said display device.

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29. A method as described in Claim 25 wherein a) is performed by a light sensor of said portable electronic device.